

Product datasheet for **RG214093**

FDXACB1 (NM_138378) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	FDXACB1
Synonyms:	hCG_2033039
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >RG214093 representing NM_138378
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGCCCTCGGCGCTCCTGTTGGTGGGAGGGGAATTTCTCCTTCGCCCGCTCTGAGCGAAACCC
 TGGATCAGAGCACTCACTTACCGCCACCTGCCTCCAGCGCCCGCCGAGTTGGCTCGGGATCCACTGGC
 CTGGGAGAATCTGCAGTGCCTGCGCGAGCGAGGTATCGATGTACGTTTCGGTGTGGACTGCACCCAGCTG
 GCAGATGTCTTTGAACTGCACGAGAGAGAAATTTGATCAAAATTTATTTTCATCTTCCCGCATTTGGACGCA
 AAGCTGGCGTAGCTAAGAACAGGGAAGTCTTGCCAAATTTTCCAAAGCTGTGCAGACGTTCTTGCAGA
 GGAAGGAGAAGTCCACGTGGCATTATGTAGAGGACAAGGTGGAACCTCTGCGGATAAGCCCCAGAGAGAA
 TGGCACAACAGTTGGCAAGTGGTGGCATGGCAGCCCTGGGGGGGCTCATTTTAAGCGACGTGTATCCAT
 TCAGCTGTAAGGCTGTGGCAGGGTACAAGTGCCTGGATATAGGAGTCAAGATAAGTCTTTCATGTAGA
 AGGTGCTTTGAACCATATCTTACCAGGAGCTTACCTTTTGAAGGTTCTCAACCCAGAATCTTCAGGATC
 AAAGTGGTAACAGTGGTTTTCTTCCAGAACAGAACTGTAGGAAAGTTGAACAGGGGTTTTCC
 TGGAAAGCACCTTATGTCATCTATCAAAACCATAAATGAGAACTCATTGCTGAATTAGGCAAAAGTTTT
 CCCGCTAAAAAGGCTGAAGTGTCTTACCTTTGCTGCCACAGGAAGGTACAGTGTCTTCTTCTTCTG
 AATTGTGACTTTCTGTGAGTCTTTTGGATTAGTCTCCATGAAGATAACTCAAATCTGAGTCCCTGA
 CTGGTGGGACATCACAAGATGTGGAAGACTTTCTAGTGTCAATTTTCAAGAACTTAGCCTTCTCAAGAATCC
 TGGAAAGAGATGGTAAAGAAGAAGCTTGTGAAGGAACCTGTGGCCAGGCCAAGATCTGCCTTAGACCTTCT
 CTCCTAGTGCATGTTTCAAGATGTATCGAAGTACCAGACTTCTCTCAGGTTCTCTGCACATCTCAGTG
 GACCTGTCTTTCAGAAAGTGCACATTTTGCCTTTCACAATGCCAGCATTTTCATGAACTTTATTTATCCT
 TGGGGTTAATCAAAATCTGAAGGATGGCTGTCTTCAATCACTGCTGGATCATCTGAAGGGCATTCTAGAT
 AGCCTGCTGACCCAGACATTGCCGGAGAGCTCTAAGCTGAGCAGTTTAGTCAAATTTGTCTTCTCAGTCAA
 ATGGAAGGATTATATGATTCGTGTGAAGACTCATAATTTAGCCAGATTGTACTGAGGATCTAATTAT
 TGGGTCTGTTATCACATCTGCCACTAGTGTATACATAAGACCAGTGTGTTGTGTTGTGTCTATGAAC
 TTGGACTTATTAGCCATGCTTGTCTGGTGTATCTCTGACTGGAGAATGTTGTGGACGTTTGATAACCGTT
 TCCTGAAAAATTTGTCCCTGGCAAAATAGAACCCTTTAAAAGTCAATCTCTGTATCCTCCATGTTATGT
 GCATGATGTTAGTTTTGGATAGATCAGAAGAAAGGATTGATGAAGTGTGTTTACACATGTGGCCGA
 GCAGTGTCTCAGGACACTATTATCCATACAGTTTCTAGCCGTTTCCAGCATCAAAGACTCAACAGG
 TCAGTCTCTGCTATAGATTGACCTACCAGACCTGTGACAAGGCCCTCACCCAGCAGCAAGTAGCATCAAT
 GCAGTCCCAGTTTAGGAAGGAGATTCAACAACACCTATATGTTATACCTCGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG214093 representing NM_138378
 Red=Cloning site Green=Tags(s)

MAPRRLLLVGEGNFSFAAALSETLDQSTQLTATCLQRPALARDPLAWENLQCLRERIDVRFVGDCTQL
 ADVFELHEREFDQIYFIFPHCGRKAGVAKNRELLAKFFQSCADVLAEEGEVHVALCRGQGGTPADKPQRE
 WHNSWQVVAALGGLILSDVYPFSCKAVAGYKCTGYRSQDKSFHVEGALNHIFTRSLPFEGSQPRIFRI
 KLGNQWFSFPEPEALVGKLNRGFLEAPSCHPIKTINEKLIAELGKVFPLKRLKCSYPLLPEGTSVLPFW
 NCDFLSAAFWISLHEDNSNSELTTGTSQDVEDFLVSFSEL SLLKNPGRDGKEEACEGTGQAKICLRPS
 LLVHVQDVIEVPDFLSGLHILSGPVFQKCHILPFTMPAFHETLFI LGVNQNLKDGCLQSLDLHLKGILD
 SLLTQTLPESSKLSLVKFLVQSNKDYMRVKTTHNFSPTDCTEDLIIGSVITSATSVIHKDQCFVFSMN
 LDLLAMLVWCISDWRMLWTFDNRFLKNFVPGKIEPFKSHSLYPPCYVHDVSFWIDQKKGFDELEFHTVAR
 AVSQDTIISIQLSRFQHPKTQQVSLCYRLTYQTCDKALTQQQVASMQSQRKEIQQHLVYIPR

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_138378

ORF Size: 1872 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_138378.3](#)

RefSeq Size: 3081 bp

RefSeq ORF: 1875 bp

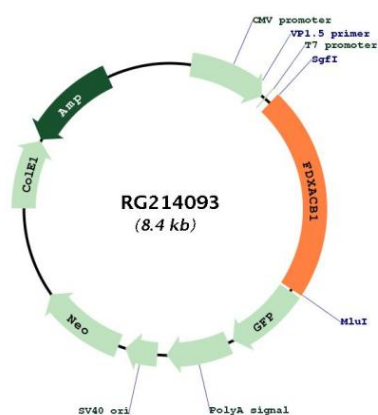
Locus ID: 91893

UniProt ID: [Q9BRP7](#)

Cytogenetics: 11q23.1

Gene Summary: This gene encodes a protein which contains a ferredoxin-fold anticodon-binding domain which is contained in a subset of phenylalanyl tRNA synthetases. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2011]

Product images:



Circular map for RG214093